

## 2011 —KAKESHITA Tomoyuki

### Scientific Papers/Commentary Articles

1. Sonomura, H., Terai, T., Kakeshita, T., Osakabe, T., Kakurai, K., Kuroiwa, Y., Moriyoshi, C., Okubo, T., Kato, K., Kim, J., Takata, M., Neutron diffraction study on magnetic structure in layered manganite  $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7(x=0.307)$ , *Solid State Phenomena*, Vols. 172-174, pp.1301-1306, 2011
2. Lee, Y., Todai, M., Okuyama, T., Fukuda, T., Kakeshita, T., Kainuma, R., Isothermal nature of martensitic transformation in an  $\text{Ni}_{45}\text{Co}_5\text{Mn}_{36.5}\text{In}_{13.5}$  magnetic shape memory alloy, *Scripta Materialia*, Vol. 64, pp. 927-930, 2011
3. Kakeshita, T., Nam, J., Fukuda, T., Kinetics of martensitics transformations in magnetic field or under hydrostatic pressure, *Science and Technology of Advance Materials*, Vol. 12, 6pp, 2011
4. Todai, M., Fukuda, T., Kakeshita, T., Relation between incommensurate satellites and phonon softening in Ti-Ni-based shape memory allys, *Scripta Materialia*, Vol. 64, pp. 541-543, 2011
5. Fukuda, T., Terai, T., Maeda, H., Kakeshita, T., Stress- Temperature Phase Diagram of  $\text{Ni}_2\text{MnGa}$  and Structural Relations between Its Constituent Phases, *Materials Science Forum*, Vol. 684, pp. 61-71, 2011
6. Todai, M., Higaki, A., Fukuda, T., Kakeshita, T., Martensitic transformation from incommensurate state with nano-scale domain structure in a Ti-42Ni-8Fe(at.%) alloy under a compressive stress, *Philosophical Magazine Letters*, Vol. 91, pp. 31-36, 2011
7. Maeda, H., Fukuda, T., Kakeshita, T., Effect of hydrostatic pressure on martensitic transformation in a ferromagnetic shape memory alloy  $\text{Ni}_2\text{MnGa}$ , *Journal of Alloys and Compounds*, Vol. 509, pp. 7840-7843, 2011
8. Yamamoto, M., Sekida, S., Fukuda, T., Kakeshita, T., Takahashi, K., Koyama, K., Nojiri, H. , A new type of FCT martensite phase in single-crystalline  $\text{Fe}_3\text{Pt}$  Invar alloy, *Journal of Alloys and Compounds*, Vol. 509, pp. 8530-8533, 2011

### International Conference Proceedings

1. T. Kakeshita, T. Fukuda, Yong-Hee Lee, An Interpretation on kinetics of martensitic transformation, *Solid State Phenomena*, 172-174, pp. 90-98, 2011
2. T. Fukuda, T. Yamamoto, M. Yamamoto, T. Kakeshita, Instability of the parent phase in nearly ordered  $\text{Fe}_3\text{Pt}$  Invar alloys, *Solid State Phenomena*, 172-174, pp. 79-83, 2011
3. M. Todai, T. Fukuda, T. Kakeshita, Position of incommensurate satellites appearing in Ti-Ni based shape memory alloys, *Solid State Phenomena*, 172-174, pp. 150-154, 2011

4. F. Xiao, T. Fukuda, T. Kakeshita, Composition Dependence of Martensitic Transformation and Superelastic Behavior in Fe-Pd Alloys, Proceedings of ECO-MATES 2011, pp. 247-248, 2011
5. Ju-yong Choi, T. Fukuda, T. Kakeshita, Effect of Magnetic Field on Morphology of Martensite in a Sensitized SUS304 Stainless Steel, Proceedings of ECO-MATES 2011, pp. 233-234, 2011
6. Yong-hee Lee, T. Fukuda, T. Kakeshita, Isothermal Martensitic Transformation under Magnetic Field in Ni<sub>45</sub>Co<sub>5</sub>Mn<sub>36.5</sub>In<sub>13.5</sub> Alloy, Proceedings of ECO-MATES 2011, pp. 41-42, 2011
7. M. Yamamoto, T. Fukuda, T. Kakeshita, Influence of degree of order on rearrangement of martensite variants by magnetic field in Fe<sub>3</sub>Pt, Proceedings of ECO-MATES 2011, pp. 69-70, 2011

#### **Publications**

1. Tomoyuki Kakeshita, Takashi Fukuda, Avadh Saxena, Antoni Planes, Disorder and Strain-Induced Complexity in Functional Materials, Springer, 2011, 308

#### **Invited/Plenary Presentations**

1. T. Fukuda, International Conference on Ferromagnetic Shape Memory Alloys, July 18-22, 2011, Dresden, Germany, Invited
2. T. Fukuda, International Conference on Martensitic Transformations (ICOMAT 2011), September 4-9, 2011, Osaka, Japan, Invited

#### **Awards**

1. M. Yamamoto, International Symposium on Materials Science and Innovation for Sustainable Society ECO-MATES 2011 PROMOTION AWARD, 2011/11/30

#### **Symposia**

1. International Conference On Martensitic Transformation (ICOMAT 2011), Invited speakers: Assoc. Prof. T. Fukuda (Osaka University), Prof. V.A. Chernenko (University of the Basque Country), Avadh B. Saxena ( Los Alamos National Laboratory)